

Reports of Soviet Scientists (Cont.)

SOV/2714

Khrustenko, P.I., P.A. Petrov, V.A. Mitropolevskiy, K.D. Sinel'nikov,  
V.Ye. Ivanov, and V.F. Zelenskiy, Assembly of the Rod-shaped Heat Producing  
Element for a Heavy Water Gas-cooled Power Reactor (Report No. 2053) 655

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SHCHERBINA, V.V.; GINZBURG, A.I., red. vypuska; MALYSHEV, I.I., red.; POLYAKOV, P.A., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L., red.; SHMANENKOV, I.V., red. EYGELES, M.A., red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Geology of rare metal deposits] Geologija mestorozhdenii redkikh elementov. No. 8 [Geochemical characteristics of scandium and types of its deposits.] Osobennosti geokhimii skandija i tipy ego mestorozhdenii. Moskva, Gos.nauch.-tekhn.izd-vo lit-ry po geol. i okhr. nedr, 1960, 56p. (Geologija mestorozhdenii redkikh elementov, no. 8). (Scandium) (MIRA 13:11)

TERENT'YEVA, K.F.; GINZBURG, A.I., glavnyy red.; MARYSHEV, I.I., red.;  
RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, I.A., red.;  
FACUTOV, V.P., red.; KHUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L.,  
red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A.,  
red.; ROZHKOVA, L.G., red.izd-va; GOROVA, O.A., tekhn.red.

[Rare elements in bauxites] Redkie elementy v boksitakh. Moskva,  
Gos.nauchn-tekhn. izd-vo lit-ry po geol.i okhr.nedr, 1959. 47 p.  
(Geologiya mestorozhdenii redkikh elementov, no.6). (MIA 13:12)  
(Metals, Rare and minor) (Bauxite)

VERSHKOVSKAYA, O.V., kand.geologo-mineral.nauk; KRASNOVA, V.S.; SALTYKOVA, V.S., kand.geologo-mineral.nauk; PERVUKHINA, A.Ye. Prinimal uchastiye LIZUNOV, N.V., kand.geologo-mineral.nauk. VLASOV, K.A., glavnnyy red.; SHCHERBINA, V.V., doktor geol.-mineral.nauk, otv.red.; MERGASOV, G.G., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Gallium; methods of study, distribution in rocks and minerals, types of deposits. Brief data on the uses and economic aspects of gallium in foreign countries] Gallii; metody issledovani, rasprostranenie v gornykh porodakh i mineralakh, tipy mestorozh- denii. Kratkie svedeniia po primeneniiu i ekonomike gallia v zareubezhnykh stranakh. Moskva, Izd-vo Akad.nauk SSSR, 1960. 145 p. (MIRA 13:9)

1. Chlen-korrespondent AN SSSR (for Vlasov).  
(Gallium)

GINZBURG, A.I.; GORZHEVSKAYA, S.A.; YEROFEYeva, Ye.A.; SIDORENKO, G.A.;  
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
KHRUSHCHOV, N.A., red.; CHERNOVITOv, Yu.L., red.; SEMENENkov, I.V.,  
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; NEMANOVA, G.F.,  
red.izd-va; BYKOVA, V.V., tekhn.red.

[Titanates, tantalates, and niobates] Titano-tantalo-niobaty.  
Moskva. Gos. nauchno-tekhn.izd-vo lit-ry po geol.i okhrane nedr.  
Part 1. 1960. 166 p. (Geologija mestorozhdenij redkikh elementov,  
no.10). (MIRA 14:6)

(Titanates)

(Tantalates)

(Niobates)

VINOGRADOV, A.P., otv.red.; SAUKOV, A.A., red.; VLASOV, K.A., red.;  
SHCHERBINA, V.V., red.; KHITAROV, N.I., red.; OVCHINNIKOVA, S.V.,  
red.izd-va; BYKOVA, V.V., tekhn.red.

[Geochemical cycles] Geokhimicheskie tsikly. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960.  
186 p.

1. International Geological Congress. 21st, Copenhagen, 1960.  
(Geochemistry--Congresses)

MALININ, S.D., nauchnyy sotr. [translator]; NOVIKOV, Yu.P., nauchnyy sotr. [translator]; POPOV, A.A., nauchnyy sotr. [translator]; TRUSOV, Yu.P., nauchnyy sotr. [translator]; YAROSHEVSKIY, A.A., nauchnyy sotr. [translator]; SHCHERBINA, V.V., red.; ZNAMENSKAYA, V.K., red.; PRIDANTSEVA, S.V., tekhn. red.

[Thermodynamics of geochemical processes] Termodynamika geokhimi-cheskikh protsessov: sbornik statei. Moskva, Izd-vo inostr. lit-ry, (MIRA 14:7) 1960. 270 p.

1. Institut geokhimii i analiticheskoy khimii im. Vernadskogo AN SSSR (for Malinin, Novikov, Popov, Trusov, Yaroshevskiy)  
(Geochemistry)

FERSMAN, Aleksandr Yevgen'yevich, akademik; SERDYUCHENKO, D.P., doktor geol.-mineral.nauk, otv.red.; BELOV, N.V., akademik, red.; VINOGRADOV, A.P., akademik, red.; SHCHERBAKOV, D.I., akademik, red.; SAUKOV, A.A., red.; SHCHERBINA, V.V., doktor geol.-mineral.nauk, red.; KUN, I.R., red.izd-va; ASTROV, A.V., red.izd-va; KASHINA, P.S., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR. (MIRA 13:11)  
Vol.6. 1960. 742 p.

1. Chlen-korrespondent AN SSSR (for Saukov).  
(Pegmatites) (Granite)

LITVINOVICH, Anatoliy Nikitovich; SHCHERBINA, V.V., doktor geol.-mineral. nauk, otv. red.; YERMOLAYEV, K.F., kand. geol.-mineral. nauk, otv. red.; SOKOLOV, A.G., red.; GASHINA, Ye.A., tekhn. red.; ROROKINA, Z.P., tekhn. red.

[Method for studying rare trace elements in complex metal ores] Metodika izuchenija redkikh raseiannykh elementov v polimetallicheskikh rudakh. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1961. (MIRA 14:9)  
104 p.

(Altai Mountains--Trace elements)

BORISENKO, Leonid Fedorovich; VLASOV, K.A., glav. red.; SHCHERBINA, V.V.,  
doktor geol.-min. nauk, otv. red.; VERSTAK, G.V., red. izd-va;  
GUS'KOVA, O.M., tekhn. red.

[Scandium; main features of its geochemistry, mineralogy, and  
genetic types of deposits] Skandii; osnovnye cherty geokhimii,  
mineralogii geneticheskie tipy mestorozhdenii. Moskva, Izd-vo  
Akad. nauk SSSR, 1961. 128 p. (MIRA 14:10)

1. Chlen-korrespondent AN SSSR (for Vlasov).  
(Scandium)

SHCHERBINA, V. V.

"Geochemical evolution of the oxidation zone of sulphide deposits"

Paper submitted at the International Geological Congress XXI Session -  
1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

S/081/61/000/020/024/089  
B138/B110

AUTHORS: Borisenko, L. F., Shcherbina, V. V.

TITLE: Geochemistry of scandium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 88, abstract 20G13 (Sb. "Geokhim. tsikly", M., Gosgeoltekhizdat, 1960, 84-92)

TEXT: Sc is a typical dispersed element. In all igneous rocks its concentration varies between 0.01 and 0.0001 %  $Sc_2O_3$ . According to 50 assays of samples from igneous intrusions in the USSR, the average  $Sc_2O_3$  concentration is (%): ultrabasic 0.003, basic, 0.004, medium (diorites 0.0004, acid 0.0002. The concentration, about 0.006 %, has been found to be rather higher in gabbro-pegmatite vein formations. There is quite a lot of Sc (> 0.01 %) in greisen and pegmatite minerals of four classes: oxides, tungstates, phosphates and silicates. It is quite usual for different concentrations of Sc to occur in minerals of the same paragenesis. In the paragenesis wolframite - beryl - mica the highest

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B138/B110

Geochemistry of scandium

concentration of  $Sc_2O_3$  is in the wolframites. In a typical rare-earth deposit in the USSR for instance, the concentrations are (%): wolframite 0.055, beryl 0.03 and muscovite 0.01. It is typical for the Sc inclusion to be in isomorphous form. In the main rock-forming minerals in which it is dispersed, Sc has heterovalent isomorphism of the first kind, where the Sc ion either substitutes 2-valent Fe or Mg according to the scheme:  $Sc^{3+} + Al^{3+} \rightarrow Fe^{2+} + Si^{4+}$ . Isovalent substitutions ( $Sc^{3+} \rightarrow Tr^{3+}$ ) and heterovalent isomorphism of the first and second kind (with  $Zr^{4+}$  and  $Sn^{4+}$ ) are typical of pegmatite minerals and pneumolitho-hydrothermal formations. In wolframites of the high temperature pneumatolitho-hydrothermal deposits of the greisen type, the average  $Sc_2O_3$  concentration is 0.045 % (238 samples), and in hydrothermal deposits it is 0.002 % (232 samples). The same thing is found in cassiterites (0.05 and 0.006 %). There is quite a lot of Sc in wolframites with 10-17 % FeO and in typical ferberites. The main concentrations of Sc in post-magmatic endogenic deposits are connected with granite magma. [Abstracter's note: Complete translation.]

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SHCHERBINA, V.V., prof., doktor geologo-mineralogicheskikh nauk

Reviews and bibliography. A book opening new vista. Azerb.  
khim. zhur no.1:97-98 '61. (MIRA 14:8)  
(Geochemistry)

SHEYNMANN, Yu.M.; APEL'TSIN, F.R.; NECHAYEVA, Ye.A.; GINZBURG, A.I., red.;  
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
KHRUSHCHOV, N.A., red.; CHERNOSVITOVA, Yu.L., red.; SHMANENKOV, I.V.,  
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ROZHKOVA, L.G.,  
red.izd-va; BYKOVA, V.V., tekhn.red.

[Alkaline intrusions, their distribution, and the mineralization  
associated with them] Shchelochnye intruzii, ikh razmeshchenie i  
sviazannaya s nimi mineralizatsiia. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po geol.i okhrane nedr, 1961. 176 p. (Geologiya  
mestorozhdenii redkikh elementov, no.12/13). (MIRA 15:8)  
(Rocks, Igneous) (Ore deposits)

SHVEY, Igor' Vladimirovich; GINZBURG, A.I., glavnny red.; POLYAKOV, M.V., zamestitel' glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ENTIN, M.L., red.izd-va; BYKOVA, V.V., tekhn.red.

[Basic geochemical problems of rare earth elements and yttrium in endogenic processes] Osnovnye voprosy geokhimii redkozemel'nykh elementov i ittria v endogennykh protsessakh. Moskva, Gos. nauchn.-tekhn. izd-vo lit-ry, po geologii i okhrane nedr, 1962. 105 p. (Geologiya mestorozhdenii redkikh elementov, no.15). (MIRA 15:11) (Rare earth metals) (Yttrium)

FERSMAN, Aleksandr Yevgen'yevich, akademik; MAMUROVSKIY, A.A. [deceased], otrv. red.; BELOV, N.V., akademik, red.; VINOGRADOV, A.P., akademik, red.; CHCIEV BAKOV, D.I., akademik, red.; SAUKOV, A.A., red.; SHCHEBDINA, V.V., doktor geol.-min. nauk, red.; POPOVA, T.S., red. izd-va; POPOVA, S.T., red.; PRUSAKOVA, T.A., tekhn. red.; GUSEVA, A.P., tekhn. red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad. nauk SSSR. Vol.7. 1962. 592 p. (MIRA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Saukov).
2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Mamurovskiy).

(Precious stones)

AL'TGAUZEN, M.N.; GINZBURG, I.I.; DUBOVSKAYA, M.V.; YERSHOV, A.D.;  
MELKOV, V.G.; OS'KIN, N.I.; ROZHKOVA, Ye.V.; STRAKHOV, N.M.;  
KHRUSHCHEV, N.A.; SHMAMECHKOV, I.V.; SHCHERBAKOV, D.I.;  
YANSHIN, A.L.; AMIRASLANOV, A.A.; GOTMAN, Ya.D.; ZUBREV, I.N.;  
KOROVYAKOV, I.A.; ORLOVA, P.V.; PASOVA, F.G.; SAAKYAN, P.S.;  
TERENT'YEVA, K.F.; SHANOBSKIY, L.M.; CHERNOVITOV, Yu.L.;  
SHCHERBINA, V.V.

IUrii Konstantinovich Goretskii; obituary. Sov.geol. 4 no.12:  
(MIRA 15:2)  
153-155 D '61.  
(Goretskii, Iuri Konstantinovich, 1912-1961)

SHCHERBINA, V.V.

Behavior of some rare and dispersed elements in the  
supergenesis zone. Sov.geol. 5 no.6:94-103 Je '62.  
(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut  
mineral'nogo syr'ya.  
(Trace elements)

SHCHERBINA, V.V.; NEAPOLITANSKAYA, V.S.

V.I.Vernadskii's contribution to the development of geology and geo-  
chemistry. Sov.geol. 6 no.3:3-17 Mr '63. (MIRA 16:3)

1. Institut geokhimii i analiticheskoy khimii imeni V.I.Vernadskogo.  
(Geology) (Geochemistry)

V.V. SHCHERBINA, K.I. YAKUBOVICH (USSR)

"The limits of isomorphic intermixthre depending on genetic conditions."

Report presented at the Conference on Chemistry of the Earth's Crust,  
Moscow, 14-19 Mar 63.

TUGARINOV, Aleksey Ivanovich; PAVLENKO, Aleksey Stefanovich;  
ALEKSANDROV, Igor' Vasil'yevich; SHCHEGININA, V.V.,  
otv. red.; IVANOV, I.P., red. izd-va; POLYAKOV, T.V.,  
tekhn. red.

[Geochemistry of alkaline metasomatism] Geokhimiia shche-  
lochnogo metasomatoza. Moskva, Izd-vo Akad. nauk SSSR,  
1963. 201 p. (MIRA 16:7)  
(Metasomatism) (Geochemistry)

VINOGRADOV, A.P., akademik, otv. red.; BARANOV, V.I., red.; BARSUKOV, V.L., red.; BEUS, A.A., red.; VALYASHKO, M.G., red.; GERASIMOVSKIY, V.I., red.; KORZHINSKIY, D.S., red.; RONOV, A.B., red.; TUGARINOV, A.I., red.; KHITAROV, N.I., red.; SHCHERBINA, V.V., red.; TARASOV, L.S., red. izd-va; DOROKHINA, I.N., tekhn. red.

[Chemistry of the earth's crust] Khimiia zemnoi kory; trudy. Moskva, Izd-vo Akad.nauk. Vol.1. 1963. 430 p. (MIRA 16:3)

1. Geokhimicheskaya konferentsiya, posvyashchennaya stoletiyu so dnya rozhdeniya akademika V.I. Vernadskogo, Moscow, 1963.  
(Geochemistry)

STAVROW, O.D.; GINZBURG, A.I., glavnnyy red.; POLYAKOV, M.V., zam. glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; FEDOTOVA, A.I., red.izd-va; IYERUSALIMSKAYA, Ye., tekhn. red.

[Basic characteristics of lithium, rubidium, sesium in the process of the formation granite intrusives and the pegmatites connected with them.] Osnovnye cherty geokhimii litiia, rubidiia, tseziia v protsesse stanovleniya granitnykh intruzivov i sviazannykh s nimi pegmatitov. Moskva, Gosgeoltekhizdat, 1963. 140 p. (Geologiya mestorozhdenii redkikh elementov, no.21). (MIRA 17:2)

KOGAN, Boris Iosifovich; NAZVANOVA, Valentina Aleksandrovna;  
VLASOV, K.A., glav. red.; SHCHERBINA, V.V., doktor geol.-  
miner. nauk, otd. red.; PONOVA, T.S., red.izd-va; RYLINA,  
Yu.V., tekhn. red.

[Scandium; an economic analysis] Skandii; ekonomicheskii  
analiz. Moskva, Izd-vo AN SSSR, 1963. 303 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Vlasov).  
(Scandium)

SHCHERBINA, V.V.; NAUMOV, G.B.; MAKAROV, Ye.S.; GERASIMOVSKIY, V.I.;  
YER'OLAYEV, N.P.; TARASOV, L.S.; TUGARINOV, A.I.; BARSUKOV,  
Vik.L.; SOKOLOVA, N.T.; KOCHENOV, A.V.; GERMANOV, A.I.;  
ZNAMENSKIY, V.L., red.izd-va<sup>g</sup> VINOGRADOV, A.P., akademik, red;  
POLYAKOVA, T.V., tekhn.red.

[Essential features of uranium geochemistry] Osnovnye cherty  
geokhimii urana. Pod red. A.P. Vinogradova. Moskva, Izd-vo  
AN SSSR, 1963. 350 p. (MIRA 16:10)

1. Akademiya nauk SSSR. Institut geokhimii i analiticheskoy  
khimii.

(Uranium)

TUMANOV, A.T., slav. red.; VATKIN, A.Ye., red.; GARIBA M.I., kand. tekhn. nauk, red.; ZAYMOVSKIY, A.S., red.; KARGIN, V.A., red.; KISHKIN, S.T., red.; KISHKINA-RATNER, S.I., doktor tekhn. nauk, red.; PANSHEV, B.I., kand. tekhn. nauk, red.; ROGOVIN, Z.A., doktor khoz. nauk, red.; SAZHIN, N.P., red.; SKLYAROV, N.M., doktor tekhn. nauk, red.; FRIDLYANDER, I.N., doktor tekhn. nauk, red.; SHUBNIKOV, A.V., red.; SUGHERBINA, V.V., doktor geol.-miner. nauk, red.; SHRAYBER, D.S., kand. tekhn. nauk, red.; GENEL', S.V., kand. tekhn. nauk, red.; NOVIKOV, A.S., doktor khoz. nauk, red.; KITAYGORODSKIY, I.I., doktor tekhn. nauk, red.; ZHEREBKOV, S.K., kand. tekhn. nauk, red.; BOGATYREV, P.M., kand. tekhn. nauk, red.; Burov, S.V., kand. tekhn. nauk, red.; POTAK, Ya.M., doktor tekhn. nauk, red.; KUKIN, G.N., doktor tekhn. nauk, red.; KOVALEV, A.I., kand. tekhn. nauk, red.; ZENTSEL'SKAYA, Ch.A., tekhn. red.

[Building materials; an encyclopedia of modern technology]  
Konstruktionsye materialy; entsiklopediya sovremennoi tekhniki. Glav. red. Tumanov, A.A. Moskva, Sovetskaya entsiklopediya. Vol.1. Abliatsiia - Korroziia. 1963. 416 p.  
(MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Kishkin).

SHCHERBINA, V.V.; IGNATOVA, L.I.; KARMAKOVA, I.G.; FEDOROVA, M.V.;  
TVERDOKHLEBOVA, K.A.

Factors affecting the endogenous distribution and concentration of  
beryllium and lithium. Min.syr'e no.7:18-27 '63. (MIRA 16:9)  
(Beryllium) (Lithium)

SHCHERBINA, V.V.

All-Union conference on the "Metasomatic Alteration of Wall  
Rocks and their Roll in Ore Formation." Geokhimiia no.6:  
6:5-616 Je '63. (MIRA 16:8)

**SHCHERBINA, V.V.**

Relationship between the occurrences of elements in nature  
in the form of chlorides and fluorides and the place of el-  
ements in the periodic system. Geokhimiia no.8:721-724 Ag  
'63. (MIRA 16:9)

1. Vernadskiy Institute of Geochemistry and Analytical Chem-  
istry ~~Academy of Sciences of the USSR~~ Moscow.

1. *Chlorophytum comosum* (L.) Willd. (Asparagaceae)

1. *Chlorophytum topinambur*, Willd. - 33; *oblongum*, (Burm.)

$$-\nabla_{\mathbf{u}} \cdot \mathbf{u}^2 + \alpha \cdot \mathbf{u} \cdot (\nabla \mathbf{u})^2 + \nabla p = 0, \quad \text{in } \Omega.$$

17241

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548910014-8"

GORZHEVSKAYA, Susanna Aleksandrovna; SIDORENKO, Galina Aleksandrovna;  
GINZBURG, A.I., glavnnyy red.; POLYAKOV, M.V., zamestitel' glavnogo  
red.; APEL'TSIN, F.R., red.; GRIGOR'IEV, V.M., red.; RODIONOV, G.G.,  
red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P.,  
red.; CHERNOVITOY, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA,  
V.V., red.; EYGELES, M.A., red.

[Titano-tantalo-niobates. Part 2.] Titano-tantalo-niobaty.  
Moskva, Nedra. Pt.2. 1964. 115p. (Geologija mestorozhdenii  
redkikh elementov, no.23) (MIRA 18:1)

SHCHERBINA, V.V.

Geochemistry of silicate melts. Zap. Vses. min. ob-va 93 no.5:  
537-544 '64. (MIRA 17:11)

SHCHERBINA, V.V.

Do thiosulfates exist in hydrothermal solutions? Geol rud. mestco-  
rozh. 6 no.3:110-111 My-Je '64 (MIRA 18:1)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Ver-  
nadskogo AN SSSR, Moskva.

SHCHERBINA, V. V.

Morphotropic series of  $ABO_3$  in subgroups of vanadium and molybdenum.  
Geokhimiia no.1:3-8 Ja '65. (MIRA 18:4)

I. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo  
AN SSSR, Moskva.

CHIKHACHYAN, V.L.; KEMENOV, Ye.I.; VASIL'YEV, V.V.

Vuz'ma Alekseevich Vlasov, 1905-1964: obituary. Ceckhimia  
no.12:1332-1333 D '64. (MIRA 18:8)

SHCHEBINA, V.N.

Interconnection of the phenomena of mineral formation and isomorphism.  
Geochemistry no.3:259-268 Mr '65. (MIRA 18:7)

I. V.I.Vernadsky Institut of Geochemistry and Analytical Chemistry,  
Academy of Sciences of the U.S.S.R., Moscow.

SHCHELEINA, V. V.

Dependence of isomorphous replacement on pressure. Geokhika no.5  
1949. My 165.

o. Institut geokhimi i analiticheskoy khimii imeni V. G. Khlobovskogo  
AN SSSR, Moscow.

BLOKH, A.M.; KOCHENOV, A.V.; GINZBURG, A.I., glavnnyy red.; APEL'TSIN, F.R., red.;  
GRIGOR'YEV, V.M., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V.,  
red.; EYGELES, M.A., red.

[Impurity elements in bone phosphate of fossil fishes.] Elementy-  
primesi v kostnom fosfate iskopaemykh ryb. Moskva, Nedra, 1964.  
106 p. (Geologija mestorozhdenii redkikh elementov, no.24).  
(MIRA 19:1)

SHCHERBINA, Ya., inzhener.

Causes of breakdowns of hydraulic pumping systems. Pozh. delo 3  
no. 8:17-18 Ag '57. (MLRA 10:8)  
(Pumping machinery)

SHCHERBINA, Ya.

Training perfect specialists. Pozh. delo 5 no.3:23 Mr '59.  
(MIRA 12:5)

1.Zamestitel' nachal'nika L'vovskogo pozharne-tehnicheskogo uchili-  
shcha.  
(Fire prevention--Study and teaching)

SHCHERBINA, Ya.I.

Intensify the mechanization of labor-consuming operations in  
the "Krivorozhstal' " Plant. Bezop. truda v prom. 3 no.12:  
17-18 D '59. (MIRA 13:4)  
(Krivoi Rog---Steelworks---Equipment and supplies)

ABRAMOV, A.A.; SHCHERBINA, Ye.A.

On the clinicology and therapy of recurrent schizophrenies. Zh. Nevropat.  
Psichiat., '52, 52, no.3, 81-84.  
(MLRA 5:5)  
(PsA 27, no.10:7315 '53)

SHCHERBINA, Ye.A.

Characteristic of remission and recovery in schizophrenia. Zhur.nevr.  
i psikh. Supplement:69-70 '57. (MIRA 11:1)

1. Kafedra psikiatrii (zav. - dotsent V.M.Shpak) Meditsinskogo  
instituta g.Stalino i Oblastnaya psikhonevrologicheskaya bol'nitsa  
(glavnyy vrach A.A.Anicheyeva)  
(SCHIZOPHRENIA)

SHCHERBINA, Ye.A.

Repeated blood transfusions for treating psychiatric patients.  
Zhur.nevr. i psikh. Supplement:94-95 '57. (MIRA 11:1)

1. Kafedra psikiatrii (zav. - dotsent V.M.Shpak) Meditsinskogo  
instituta g.Stalino i oblastnaya psikhonevrologicheskaya klini-  
cheskaya bol'nitsa (glavnnyy vrach A.A.Ancheyeva)  
(BLOOD--TRANSFUSION) (SCHIZOPHRENIA)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548910014-8"

SHCHERBINA, Ye.A.

Neurodynamic characteristics of schizophrenic defects. Zhur.vys.  
nerv.deiat. 10 no.6:821-826 N-D '60. (MIRA 14:1)

1. Psichiatricheskaya klinika Stalinskogo meditsinskogo instituta  
i Oblastnaya psikhoneurologicheskaya bol'nitsa No.1, g. Stalino.  
(SCHIZOPHRENIA) (CONDITIONED RESPONSE)

SLIVKO, I.M.; SHCHERBINA, Ye.A.

Problems in psychiatry. Zhur. nevr. i psikh. 62 no.4:605-606 '62.  
(MIRA 15:5)  
(PSCHIATRY)

SHCHERBINA, Ye.A.

Disorders of functional mobility of the cold analyzer in  
patients with schizophrenia. Zh. nevropat. psikiat. Korsakov  
63 no.3:399-405 '63 (MIRA 17:1)

1. Iz kafedry psikiatrii (zav. - prof. I.M. Slivko) Donetskogo  
meditsinskogo instituta.

SUKHNIN, A.N.; SHCHERBINA, Ye.I.

RateL. Priroda 44 no.5:117-118 My '55. (MLRA 8:7)

1. Badkhyzskiy gosudarstvennyy zapovednik  
(Badgers)

SHCHERBINA, Ye.I.

Contribution to the study of the postembryonal development of  
the Afghan vole *Microtus afghanus afghanus* Thomas. Izv.AN Turk.  
SSR no.2:115-118 '57. (MLRA 10:5)

1. Badkhyzskiy gosudarstvennyy zapovednik.  
(FIELD MICE)

RUSTAMOV, A.K.; SHCHERBINA, Ye.I.

The felids of Badkhyz. Izv. AN Turk.S.S.R. no.3:119-121 '57.  
(MIRA 10:10).

1. Turkmenskiy sel'skokhozyaystvennyy institut imeni M.I.Kalinina  
Badkhyzskiy gosudarstvennyy zapovednik.  
(Badkhyz--Cats)

RUSTAMOV, A.K.; SUKHININ, A.N.; SHCHERBINA, Ye. I.

Numbers and reproduction of predatory birds and foxes as related to rodent numbers in southern Turkmenia [with summary in English].  
Zool. zhur. 37 no. 6:917-925 Je '58. (MIRA 11:?)

1. Kafedra zoologii Turkmenskogo sel'skokhozyaystvennogo instituta,  
Ashkhabad i Badkhyzskiy gosudarstvennyy zapovednik.  
(Turkmenistan--Mice)  
(Birds of prey)  
(Foxes)

SHCHERBINA, Ye.I.

Feeding habits and agricultural importance of the porcupine  
in the Badkhyz Uplands. Izv. AN Turk. SSR no.2:73-77 '59.  
(MIRA 12:6)

1.Badkhyzskiy gosudarstvennyy zapovednik i Institut zoologii i  
parazitologii AN Turkmeneskoy SSR.  
(Badkhyz Uplands--Porcupines)

SHCHEARINA, Ye.I.

Dynamics of the abundance of foxes in Badkhyz (southeastern Turkmenistan).  
Izv. AN Turk. SSR. Ser. biol. nauk no.5:50-59 '61. (MIRA 14:12)

1. Institut zcologii i parazitologii AN Turkmeneskoy SSR.  
(BADKHYZ--FOXES)

SHCHERBINA, Ye.I.

Propagation of *Microtus afghamus* in Badkhyz. Izv.  
AN Turk. SSR. Ser. biol. nauk no.1:69-73 '62. (MIRA 15:3)

1. Institut zoologii i parazitologii AN Turkmeneskoy SSR.  
(BADKHYZ--FIELD MICE)

SHCHERBINA, Ye.I.; BABAYEV, Kh.; ATAYEV, Ch.; KOLODENKO, A.I.

New data on the occurrence of some vertebrates in Karabil'  
(southeastern Turkmenia). Izv. AN Turk. SSR. Ser. biol.  
nauk no.1:88-89 '64. (MIRA 17:9)

1. Institut zoologii i parazitologii AN Turkmeneskoy SSR.

SHCHERBINA, Ye.I.

Ecology of the corsak (*Vulpes corsak* L.) in the Karabil' Upland  
(southeastern Turkmenia). Izv. AN Turk. SSR. Ser. biol. nauk  
no.5:71-74 '64. (MIRA 18:2)

1. Institut zoologii i parazitologii Akad. Turkaanskoy SSR.

ACC NR: AP7000772

SOURCE CODE: UR/0065/66/000/012/0027/0023

AUTHOR: Zhake, L. Yu.; Gurevich, I. L.; Endeka, Ye. Yu.; Shcherbina, Ye. I.

ORG: MINKh and GP

TITLE: Antioxidant additives to triethylene glycol

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 12, 1966, 27-28

TOPIC TAGS: dearomatization, kerosene, gas oil, kerosene fraction, gas oil fraction, extracting agent, diethylene glycol, triethylene glycol, antioxidant, antioxidant additive, diethanolamine, topanol, corrosion, anticorrosion additive, corrosion inhibitor

ABSTRACT: The study of the stabilization of triethylene glycol with antioxidants suitable for operation at a temperature range of 160-180°C was prompted by the corrosive effect on equipment of polyethylene glycols used as extracting agents at temperatures above 150°C, as the experience indicated in the dearomatization of kerosens-gas oil fractions at Sumgait. As it is necessary to keep the pH of the extracting agent above 8, monoethanolamine--MEA (bp 171°C) was used as an anticorrosion agent for diethylene glycol; however, in the case of the triethylene glycol, MEA cannot be used at these temperatures. Therefore, experiments were made with diethanolamine--DEA or topanol (manufactured by the firm "Oxide") by heating triethylene glycol for 1.5 to 4.5 hr at 150, 170, and 200°C in a stream of either air

UDC: 66.094.382:66.062.52

Card 1/2

ACC NR: AP7000772

or nitrogen. DEA and topanol were added to triethylene glycol in amounts of 0.5 and 0.1%, respectively. The results indicated that in air only DEA can keep the pH of the triethylene glycol above 8 at 200C for 1.5 hr; at lower temperatures, both DEA and topanol kept the pH level of the extractant below 8 for all the exposures. In a nitrogen stream, traces of DEA made it possible to keep the pH level of the extractant above 10 for all temperatures and exposures tested. In conclusion the author regards DEA and topanol as prospective stabilizing agents for triethylene glycol; however, the industrial dosages of these additives must be still determined more accurately. Orig. art. has: 2 tables.

SUB CODE: 11, 21/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 5108

Card 2/2

SHCHERBINA, Yu.A.

Calculating temperature curves in a bluff-body trail during  
combustion. Trudy MFTI no.3:93-107 '59. (MIRA 13:5)  
(Combustion)

101200  
3/658/61/000/007/009/010  
D251/D302

101200

AUTHOR: Shcherbina, Yu.A.

TITLE: On the influence of turbulence on the boundaries and range of a submerged current

SOURCE: Moscow. Fiziko-tehnicheskiy institut. Trudy, no. 7, 1961. Issledovaniya po mekhanike i prikladnoy matematike, 152 - 157

TEXT: The article gives experimental data on the boundaries and range of a submerged plane current, whose turbulence varies from 6 to 30 %. The turbulence is investigated by means of the apparatus shown in Fig. 1. 1 is a lead-in pipe 3000 mm long and 200 mm in diameter; 2 is a receiver, connecting with a plane nozzle 3 of height 24.6 mm and breadth 250 mm. A turbulence lattice is placed inside the nozzle, 25 mm from the aperture. The intensity of turbulence is measured 30 mm from the lattice. The results are interpreted by the theory of G.N. Abramovich (Ref. 1: Teoriya turbulentnykh struy (Theory of Turbulent Streams), Fizmatgiz, 1960), and expre-  
X

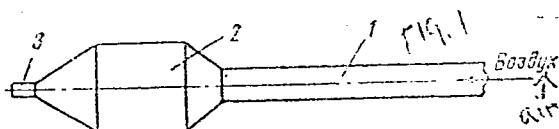
Card 1/2

32759  
S/65S/61/000/007/009/010  
D251/D502

On the influence of turbulence ...

sed in graphical form. The following conclusions are drawn: 1) In strongly turbulent streams (up to 50 %) the basic regularities of currents are preserved with normal initial turbulence. 2) In calculating the limits of turbulence there arises consideration of the increase of the distance of the pole from the apertures of the nozzle with the growth of initial turbulence. 3) In addition to the increase of the coefficient of turbulence  $\alpha$ , with the growth of intensity of the initial turbulence must be considered in calculating the range. There are 7 figures, 1 table and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc.

Fig. 1.



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45574  
 S/658/62/000/009/002/013  
 A059/A126

11.7420  
 AUTHORS: Shcherbina, Yu.A., Gorbunov, G.I.

TITLE: On the aerodynamic resistance of burning particles of spherical shape

SOURCE: Moscow. Fiziko-tehnicheskiy institut. Trudy. no. 9, 1962. Is-  
 sledovaniya po mekhanike i prikladnoy matematike. 9 - 15

TEXT: The coefficient of aerodynamic resistance of burning spherical par-  
 ticles at Reynolds numbers higher than 1,000 was measured using burning spherical par-  
 um drops obtained with the setup shown in Figure 1, the chief constituent of  
 which is illustrated in Figure 2. In this way, drops with  $r = 2.2$  mm were  
 achieved at  $\sim 800^\circ\text{C}$  and  $\sim 2$  atm. The experimental trajectories were found to  
 agree satisfactorily with those calculated from the formulas:

$$x = \frac{u^2 t^2}{2A}, \quad (8) \quad \text{and} \quad y = v_0 t, \quad (9)$$

where  $u$  is the velocity of flow,  $t$  is the time,  $v_0$  the initial velocity of the

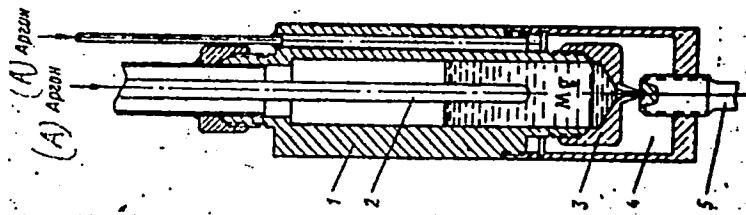
Card 1/3

Card

On the aerodynamic resistance of burning ....

S/658/62/000/009/002/013  
A059/A126

Figure 2: Diagram of the device for obtaining metal drops. 1 - body; 2 - thermocouple; 3 - headpiece; 4 - chamber; 5 - plug; (A) Argon.



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ACC NR: AM6030111

Monograph

UR/

Chebotarev, Irnida Ivanovna; Shcherbina, Yuriy Dmitriyevich; Kuznetsov, Yevgeniy Andreyevich

Reliability of potentiometric transducers and its technological provision (Nadezhnost' potentsiometricheskikh datchikov i yeye tekhnologicheskoye obespecheniye) Moscow, Izd-vo "Mashinostroyeniye", 1966. 113 p. illus., biblio. 6800 copies printed.

TOPIC TAGS: potentiometer, aircraft flight instrument, precision instrument industry, aircraft engine instrument, instrumentation satellite, precision potentiometer

PURPOSE AND COVERAGE: The book was written for engineers in the instrumentation industry, designers, design bureaus, and research-laboratory staffs. It deals with problems of aircraft-instrumentation reliability, possible defects in potentiometers, and the connection between these defects and the technology producing them. On the accuracy and reliability of potentiometers depend the accuracy and reliability of aircraft instrumentation in automatic navigation systems which are connected to radio systems and their components. The book analyzes the use in potentiometers of metallic and nonmetallic materials such as glass-fiber--reinforced plastic and glass-ceramics. The author stresses the importance and reliability of windings, etc., and the effect on instruments at

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UDC: 621.317.727.1

ACC NR: AM6030414

different temperatures. The basic factors which affect potentiometers in service are analyzed. The book was reviewed by V. S. Loktayev. There are 11 references, 8 of which are Soviet.

TABLE OF CONTENTS (abridged)

Introduction -- 3

Ch. I. Basic characteristics of potentiometer reliability -- 5  
Ch. II. Frame and base of potentiometers -- 21  
Ch. III. Winding and impregnation of potentiometers -- 37  
Ch. IV. Dressing of potentiometer contact units -- 54  
Ch. V. Assembly of a potentiometric transducer in a device -- 74  
Ch. VI. Use of potentiometers -- 88

References -- 115

SUB CODE: 01, 17/ SUBM DATE: 18Feb66/ ORIG REF: 007/ OTH REF: 004

Card 2/2

S/056/63/044/002/064/065  
B185/3102

AUTHORS: Nikolayev, V. I., Shcherbina, Yu. I., Karchevskiy, A. I.

TITLE: The Mössbauer effect in the compound  $\text{FeSn}_2$

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,  
no. 2, 1963, 775-777

TEXT: The antiferromagnetic compound  $\text{FeSn}_2$  is one of the most interesting objects to be investigated by the Mössbauer method, since both the isotopes  $\text{Fe}^{57}$  and  $\text{Sn}^{119}$  are well suited for studying nuclear  $\gamma$ -ray absorption. The authors measured the absorption of 14.4-kev  $\gamma$ -quanta (source  $\text{Co}^{57}$ , 270 days halflife) and 23.8-kev  $\gamma$ -quanta (source  $\text{Sn}^{119m}$ , 253 days halflife) by a 28  $\text{mg/cm}^2$  thick layer of  $\text{FeSn}_2$  deposited on a  $\text{Re}$  disc. The intensity of the radiation passed through the absorber was measured with a  $\text{NaI}(\text{Tl})$  crystal connected with a single-channel pulse-height analyzer. The  $\text{Fe}^{57}$  absorption spectrum of the 14.4-kev quanta contained six well resolved peaks, the distance of the outermost ones

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The Mössbauer effect in the

S/056/65/044/002/064/065  
B185/3102

corresponding to the source velocity which was  $(3.9 \pm 0.1)$  mm/sec. From the data so obtained the magnetic field acting on the Fe nucleus in  $\text{FeSn}_2$  was calculated to equal  $121 \pm 4$  koe. At  $T/T_{\text{Néel}}^2$  ( $T_{\text{Néel}} \approx 580^{\circ}\text{K}$ ) the spectrum consists of a single line whose width was  $(6.7 \pm 1.0)^{\circ}$  at  $96^{\circ}\text{C}$  and  $(2.7 \pm 1.0)^{\circ}$  at  $166^{\circ}\text{C}$ , where  $^{\circ}$  denotes the true line width. The  $\text{Sn}^{119}$  absorption spectrum for 23.8  $\gamma$ -rays has, at room temperature, an asymmetrical doublet structure which degenerates at  $T \gg T_{\text{Néel}}$  to a single line. The line splitting is assumed to be due to a magnetic lattice field. The fact that the 23.8-kev  $\gamma$ -ray absorption cross section in  $\text{FeSn}_2$  is equal to that in  $\text{SnO}_2$  is attributed to the particular role played by the optical branches of the lattice vibrations in the Mössbauer effect. There are 2 figures.

PRESENTED: November 17, 1962

Card 2/2

NIKOLAEV, V.I.; SHOERBINA, Yu.I.; YAKIMOV, S.S.

Temperature study of Mossbauer spectra on  $Fe^{57}$  and  $Sn^{119}$   
nuclei in the antiferromagnetic compound  $FeSn$ . Zhur. eksp.  
i teor. fiz. 45 no.4:1277-1280 O '63. (MIRA 16:11)

KHOLMSKIY, V.G., doktor tekhn.nauk, prof.; SHCHERBINA, Yu.V., inzh.

Principles for calculating the optimum distribution of reactive power  
in electrical networks by means of electronic digital computers.  
Izv.vys.ucheb.zav.; energ. 5 no.4:1-8 Ap '62. (MIRA 15:5)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Predstavlena  
kafedroy elektricheskikh setey i sistem.  
(Electric power distribution) (Electronic digital computers)

KHOINSKIY, V.G., doktor tekhn.nauk; SHCHERBINA, Yu.V.

Determination of the installed capacity and distribution of additional compensating devices in electrical networks. Energ. i elektrotekh. prom. no.2:29-35 Ap-Je '62. (MIRA 15:6)

1. Kiyevskiy politekhnicheskiy institut.  
(Electric power distribution)

KHOLMSKIY, V.G., doktor tekhn.nauk (Kiyev); SHCHERBINA, Yu.V., inzh. (Kiyev)

Accounting for the limitations in the calculation of the operation  
of an electric power system with consideration of minimum loss  
conditions. Elektrichestvo no.4:19-24 Ap '62. (MIRA 15:5)  
(Electric power distribution)

KHOLMSKIY, V.G., doktor tekhn.nauk; SHCHERBINA, Yu.V.; SEZONOV, V.D.

Calculation of the mode of operation of a multiple short-circuited electrical network using the "Ural-1" computer.  
Energ.i elekrotekh.prom. no.4:23-25 O-D '62. (MIRA 16:2)

1. Kiyevskiy politekhnicheskiy institut (for Kholmskiy,  
Shcherbina). 2. Institut gornogo dela AN UkrSSR (for Sezonova).  
(Electric networks) (Electronic computers)

KHOLMSKIY, V.G.; GALUSTOVA, L.A.; SHCHERBINA, Yu.V.; BUSLOVA, N.V.

Methods for selecting the optimum cross sections of an open 6  
to 10 kv. distribution network. Trudy Inst. elektrotekh. AN  
URSR no.19:110-117 '62. (MIRA 16:5)

(Electric power distribution) (Electric lines—Overhead)

SHCHERBINA, Yu.V.

Calculation of efficient distribution of reactive loads by a  
method which involves the conversion of the conductance matrix.  
Trudy Inst. elektrotekh. AN URSR no.19:118-124 '62.  
(MIRA 16:5)

(Electric power distributions)  
(Electric networks)

KHOLMSKIY, V.G., doktor tekhn. nauk; SHCHERBINA, Yu.V.; SULEYMANOV, V.N.

Accurate method for calculating the operating modes of multiple closed-loop power distribution networks with nonbalanced coupling transformers and booster transformers. Energ. i elektrotekh. prom. no.2:35-40 Ap-Je '63. (MIRA 16:7)

1. Kiyevskiy politekhnicheskiy institut.  
(Electric power distribution)

L 17300-63

ACCESSION NR: AP3002762

S/0143/63/000/005/0030/0037

45

AUTHOR: Faynitskiy, V. M. (Docent); Shcherbina, Yu. V. (Engineer)

TITLE: Selecting control system and settings of the starting unit of an automatically adjustable bank of capacitors

SOURCE: IVUZ. Energetika, no. 5, 1963, 30-37

TOPIC TAGS: capacitor bank, automatic control, power system capacitor, power factor correcting capacitor

ABSTRACT: A "universal" automatic system for controlling the adjustable power-factor correcting capacitor bank was developed in the Kiev Polytechnic Institute. Depending on the connections of its starting unit (a thermal bimetal-driven device), the system can be made sensitive to voltage, voltage corrected by the time of day, voltage plus current, reactive current, total current, and voltage-limited current. The article offers a detailed theoretical examination of

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ACCESSION NR: AP3002762

operating conditions, power-system parameters, types of automatic-adjustment systems, and starting-unit settings that would ensure minimum loss in transmission and distribution of reactive power. Conclusions: (1) Voltage-type control is applicable in many cases and can be improved by time-of-day or load-current correction; (2) Current-type control is applicable for nearby load areas; it can be improved by introducing a voltage-limit feature. Orig. art. has: 2 figures and 12 formulas.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut, Kafedra elektricheskikh setey i sistem (Kiev Polytechnic Institute, Division of Electric Networks and Systems)

SUBMITTED: 04Oct61

DATE ACQ: 24Jul63

ENCL: 00

SUB CODE: EE

NO REF SOV: 004

OTHER: 001

Card 2/2

SHCHERBINA, Yu.V., kand. tekhn. nauk

Automation of the programming of electric network calculations  
using electronic digital computers. Energ. i elektrotekh. prom.  
no.1:39-41 Ja-Mr'64. (MIRA 17:5)

KHOLMSKIY, V.G., doktor tekhn. nauk; TSUKERBLIK, L.V., doktor tekhn. nauk; SHUL'GIN,  
BINA, Yu.V., kand. tekhn. nauk

Some results and objectives of research in the application of digital  
computers in the field of electric power engineering. Energ. i elek-  
tritekhn. prom. no.2:6~G Ap-Je '64. (MIRA 17,1G)

KHOLMSKII, V.G., doktor tekhn. nauk; SHCHERBINA, Yu.V., kand. tekhn. nauk;  
NICHIPOROVICH, L.V., inzh.

Selection of optimum design and operational solutions using electronic  
digital computers and discrete descent techniques. Energ. i elektrotekh.  
prom. no.2:8-10 Ap-Je '64. (IIRA 17:10)

KHOLOMSKIY, V.G., doktor tekhn. nauk; SHCHERBINA, Yu.V., kand. tekhn. nauk;  
KOMLAICH, V.I., inzh.

Realization of a method for the transformation of an electric net-  
work using an electronic digital computer. Energ. i elektrotekh.  
(MIRA 17:11)  
porm. no.3:18-20 Jl-S '64.

SHCHERBINA, Yu.V., kand.tekhn.nauk

Calculation of electrical networks using incomplete cells of the  
"Ural-2" digital computer. Energ. i elektrotekh. prom. no.2:12-14  
Ap-Je '65. (MIRA 18:8)

L 22472-66

ACC NR: AP6013610

SOURCE CODE: UR/0143/65/000/008/0007/0014

AUTHOR: Shcherbina, Yu. V. (Candidate of sciences); Nichiporovich, L. V. (Engineer)

ORG: Kiev "Order of Lenin" Polytechnic Institute (Kiyevskiy ordena Lenina  
politekhnicheskiy institut) 38  
BTITLE: Bases of algorithmization of calculations of operating conditions of open  
electrical networks using the "Ural" series computer

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 8, 1965, 7-14

TOPIC TAGS: computer, algorithm, electric network

ABSTRACT: Selecting the "Ural" type computer due to its great suitability for the type of problem at hand (single address instruction system, possibility of usage of half memory locations, flexible re-addressing system), the authors develop the basic positions in an algorithm for calculating operating states in open electric power networks, as developed and tested many times in 1961-64. A typical problem has the net plan, with parameters of loads and voltages assigned at a certain initial point. The distribution of current or power through the sectors of the system, the voltages at all points and the summary power losses must be calculated. Loads are considered to be assigned in current rather than in power. The advantage of the algorithm presented in detail in this article is the great speed of computa-

Card 1/2

UDC: 621.316.13:518.5

L 22472-66

ACC NR: AP6013610

tion. A disadvantage is the requirement that points and sectors be numbered in order. The authors are now developing an algorithm without this deficiency. Orig. art. has: 1 figure, 2 formulas, and 1 table. [JPRS] 0

SUB CODE: 09 / SUBM DATE: 15Jul64 / ORIG REF: 004

Card 2/2 *BK*

SHCHERBINA, Yu.V., kand. tekhn. nauk; NICHIPOROVICH, L.V., inzh.

Selection of optimal branch cut points in 10(6) kv. networks  
of large cities using digital computers. Energ. i elektrotekh.  
prom. no.3:12-14 J1-S '65. (MIRA 18:9)

KHOLODOV, Yu.A.; KRUSHINSKAYA, N.L.; SHURANOVA, Zh.P.; SHCHERBINA, Z.D.

Comparative physiological data on the differentiation of two positive stimuli. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 6:188-194  
'61. (MIRA 14:12)

1.Iz Laboratorii sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti, zav. - L.G.Voronin.  
(CONDITIONED RESPONSE)

SHCHERINA-SAMOLODOVA, I. S.

SHCHERINA-SAMOLODOVA, I. S. -- "Investigation of the Great Solar Spectrograph by the Kuchinskaya Astrophysics Observatory, GAIsh, and the Application of Results Obtained to the Determination of True Contours of Sodium Lines in the Spectrum of the Sun." Sub 8 May 52, Moscow Order of Lenin State U imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Moskva January-December 1952

Chemical Abst.  
Vol. 48  
Apr. 10, 1954  
Electronic Phenomena and Spectra

Sodium lines at the center and edge of the solar disk.  
I. S. Shcherbin-Samolov. *Astron. Zhur.* 30, 414-20  
(1953).—Na 5882.6, 5888.2, 6154.2 and 6160.7 Å. have a  
greater residual max. intensity at the edge of the disk than  
at the center; the reverse is true, although to a slighter  
extent, for Na 5890.0 and 5895.9 Å. Na 6154.2 and 6160.7  
have greater half widths at the edge than at the center.  
The reverse is true for the D lines, but there is little varia-  
tion for Na 5888.2 or 5882.6. Cyrus Feldman

State Astronomical Inst. in Shternberg

SHCHERBINA-SAMOYLOVA, I.S.

Studying the spectrograph of the Kuchino Astrophysical Observatory  
of the Shternberg State Astronomical Institute. Soob.GAISH no.93:11-53 '53.  
(M.RA 7:5)  
(Spectrograph)

SHCHERBINA-SAMOYLOVA, I.S., kandidat fiziko-matematicheskikh nauk.

Local system of galaxies. Priroda 44 no.11:81-83 N '55. (MLRA 9:1)

1.Institut nauchnoy informatsii Akademii nauk SSSR.  
(Cosmography)

SHCHERBINA-SAMOYLOVA, I.S.  
USSR/Astronomy

Card 1/1

Author : Shcherbina-Samoylova, I. S. Cand. of Physico-Math. Sciences  
Title : Solar eclipse June 30, 1954  
Periodical : Priroda, 5, 85 - 87, May 1954  
Abstract : The author predicts that the solar eclipse of June 30, 1954 will be very easy to observe in the USSR. First to observe the eclipse will be the inhabitants of the Klaipeda region (Baltic sea). The shadow of the moon will then shift toward south-east, through Lithuania, Byelorussia, Ukraine into the Caucasus, it will pass the southern part of the Caspian sea and leave the boundaries of the USSR. The following large cities will be in line of complete eclipse: Kaunas, Kiev, Poltava, Dnepropetrovsk, Zhdanov, Ordzhonikidze, Baku and the Caucasian resort Mineral niye Vody. The width of the band of the complete phase varies from 153 km (at the north) to 136 km (on the south).  
Institution : Acad. of Sc. USSR, Institute of Scientific Information  
Submitted : ....

SHCHERBINA-SAMOYLOVA, I.S.

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; ROZENBLYUM, N.D.; YEGORCHENKO, I.F. (Irkutsk); KAVERIN, A.A. (Irkutsk); KONSTANTINOVA, T.G. (Irkutsk); KUKLINA, V.A. (Irkutsk); KUKLIN, G.V. (Irkutsk); SAZONOVA, Z.G., (Irkutsk); CHERNYKH, L.I. (Irkutsk); CHERNYKH, N.S. (Irkutsk); DEMIDOBICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, M.A.; PARENAGO, P.P.; SHCHERBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL', Yu.G.; MARTYNOV, D.Ya.; FEDYNSKIY, V.V.; VORONTSOV-VEL'YAMINOV, B.A.; ZIGEL', F.Yu.; BAKULIN, P.I., otv.red.; BAKULIN, I.Ye., red.; AKHILAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomicheskii kalendar'. [A yearbook; variable section for 1959] Ezhegodnik. Perekonnais chast', 1959. Red. kellegiia P.I. Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem. lit.-ry, 1958. 370 p. (Vsesoiuznoe astronomo-geodesicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvennoye astronomo-geodesicheskoye obshchestvo (for Kulagin, Kovbasyuk, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodesicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshtein, Perova).

(Astronomy--Yearbooks)

V 4

PHASE I BOOK EXPLOITATION

SOV/3651

Vsesoyuznoye astronomo-geodezicheskoye obshchestvo

Astronomicheskiy kalendar' 1960 (Astronomical Calendar, 1960) Moscow,  
Fizmatgiz, 1959. 351 p. (Series: Its: Yezhegodnik; peremennaya  
chast', vyp. 63) 7,200 copies printed.

Ed.: I.Ye. Rakhlin; Tech. Ed.: S.N. Akhlamov; Editorial Board: P.I.  
Bakulin (Resp. Ed.), M.M. Dagayev, S.G. Kulagin, A.G. Masevich, P.P.  
Parensago.

PURPOSE: The book is intended for astronomers and geophysicists and  
physicists interested in astronomical phenomena.

COVERAGE: This yearbook on astronomy was compiled by a number of Soviet  
scientists specializing in several different branches of astronomy.  
The following persons participated in the work: L.D. Kovbasyuk, who  
wrote the chapters on ephemerides of the Sun and Moon; M.M. Dagayev,  
the chapters on planets, eclipses, physical coordinates of the Sun,  
Moon, Mars, and Jupiter, and the satellites of Jupiter and Saturn;  
V.S. Lazarevskiy, the chapters on ephemerides and heliocentric longitudes  
of planets; Ye.G. Demidov, the chapters on occultation of stars and  
planets by the Moon, observations of Polaris and computation of coor-

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Astronomical Calendar, 1960

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dinates of stars; V.A. Bronshten, the chapters on comets; N.S. Yakhonova, sections on minor planets; and N.B. Perova, the chapters on variable stars. The appendixes contain articles on recent developments and events in astronomy such as the launching of the first Soviet space rocket, the 10th Congress of the International Astronomical Association held in Moscow in August 1958, developments in astronomy in 1958 during the IGY. There are 385 references, all Soviet.

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A166/A027

AUTHOR: Shcherbina - Samoylova, I.S., Candidate of Physics and Mathematics

TITLE: The Solar Eclipse of 15 February 1961

PERIODICAL: Priroda, 1961, No. 1, pp. 77-79

TEXT: The author describes the importance to astronomy of solar eclipses and lists some of the investigations scheduled for the forthcoming eclipse of 15 February 1961. The Krymskaya astrofizicheskaya observatoriya (Crimean Astrophysical Observatory) and some oblast' departments of the Vsesoyuznaya astronomo-geodezicheskaya obshchestvo (All-Union Astronomical and Geodetical Society) would coincide with the track of the total eclipse and are thus well placed for observations. Observations of the eclipse were to be made at Buzuluk, Dzhankoy, Stalingrad, Kerch', Kalach and Shakhty, with maximum concentration of expeditions at Rostov-on-Don which will be headquarters of the Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga (State Astronomical Institute im. P.K. Shternberg) of Moscow and the Glavnaya astronomicheskaya observatoriya (Main Astronomical Observatory) of Pulkovo. An observation plane will also fly at a high

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